

ATLAS Savannah feedback



- ❑ Atlas feedback on savannah collected last year in:
<https://twiki.cern.ch/twiki/bin/view/Atlas/SavannahFeedback>
- ❑ Submitted to SFT group. First answers two weeks ago. In short:
 - Are ready to do incremental improvements to Savannah
 - They are starting the investigation of Jira (for more fundamental changes)
 - Would welcome feedback from us (volunteer ?)
- ❑ Detailed feedback in following pages

Multiple Projects



- ❑ Savannah designed to handle project separately, but there are 20 atlas projects
- ❑ Some projects are:
 - "entry-points" e.g. "Reprocessing" "Tier0" (filled mostly by shifters)
 - "domain" e.g. SVN top directory where the fix is expected, with a well identified manager feeling responsible for fixing the bug
 - "application" e.g. Reconstruction, Simulation (also with a "domain" component)
- ❑ A bug report may concern at the same time (e.g. a crash writing an ID track at Tier0) : Tier0, Inner Detector, Event Data Model, Reconstruction:
 - Normally we reassign bug from project to project
 - This makes the bug quickly unreadable:
 - SFT: can improve the readability of reassign bugs
 - Also bug number changes each time it is reassigned
 - If a Tier0 crash was submitted directly to Inner Detector, no way to have it appear under Tier0
 - Different "views" on a bug :
 - Jobs in task 12345,12346 crashes
 - Crash in TrkExtrapolation::nextStep() in HI data reco
 - =>A system of "labels" across project would be more suitable
 - SFT: not possible in savannah
- ❑ All the software projects were configured identically at the beginning, some have been tuned, or not, by their managers. Very rare that the tuning is meaningful for this project alone.=>Would rather need a common Atlas tuning
 - A practical consequence e.g. : no way to get all bugs in release 16.0.2
 - SFT: not possibility to automatically share configuration between projects
- ❑ Having just one Atlas project with 500 open bugs is maybe possible but rather frightening

API on top of Savannah



- ❑ Would be nice to be able to query Savannah db programmatically:
 - For requests across projects
 - To collect statistics
 - For connection with other tools (e.g. TagCollector/SQFlags knows the number of a bug report associated to a new tag submission but cannot display the title): **FIXED last week**
 - In particular no way today to associate bugs to release and release to bug.
 - **SQFlags** is a layer allowing this, but not (yet) automatically
 - ED's idea : indicate in savannah that bug is fixed by myPackage-ii-jj-kk, then TC can figure out in which release they went
 - **SFT: only possible within savannah constraint (e.g. no dynamic label system)**
- ❑ Would be nice to submit bug report programmatically e.g.:
 - To prepare correctly formatted bug reports when monitoring production
 - When doing fpe or coverity hunting (etc...)
- ❑ Technically possible but require direct access to internal db, which is disabled for safety/resources reason (?)
 - Some semi-private attempt to rebuild a database through wget or mail archive scanning ("bug" "export" could be used as well)
 - **SFT: Suggest to use <http://wwwsearch.sourceforge.net/mechanize/> which would require development on our side. But are afraid of misuse.**

16.7.0.2 SQFlags

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<input type="checkbox"/> Simu/FrozenShowers	out_of_date Edit View Bugs Subscribe	default	parent	+
<input type="checkbox"/> Simu/Full	not_yet_decided Edit View Bugs Subscribe	default	parent	+
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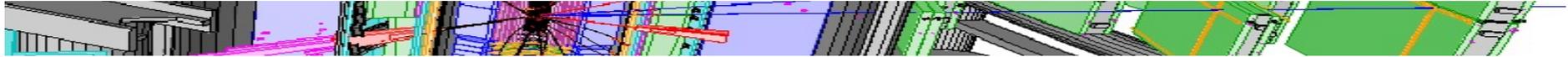
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Some other feature requests



- ❑ Connection to afs login (sso):
 - Possible for new people, but many people have different account name. Need to be enforced
 - SFT: 50% of all savannah user already using SSO, 25% not using it have a clear match to CERN account=>will be migrated in april. Remaining 25% will be done later (not clear how)
- ❑ Ajax-like searches with autocompletion
 - SFT: not possible without heavy rework
- ❑ Improved search (e.g. limited to atlas projects, search for all bugs in a given release, list of bugs I am in CC of)
 - SFT: could make the project-wide search global relatively easily, more tunable
- ❑ Possibility to edit a bug report to make it readable (detailed history not always interesting, sometimes irrelevant/wrong comments...)
 - SFT: suggest "Remove comment" available to project manager
- ❑ Possibility to reply by mail:
 - SFT: possible relatively easily (but only for comment, not to change status of the bug)
- ❑ "Preview" button before submitting a bug
 - SFT: possible relatively easily

Imagine...



- ❑ When submitting (or analysing) a bug report you type the package name (with autocompletion obtained e.g. from svn) (or even a class/method name), and the bug is automatically assigned to the package authors (from TagCollector database)
- ❑ When the fix is submitted through TagCollector, the bug report gets automatically updated : "Fixed in Package-01-02-03 submitted to release 23.4.5"
- ❑ In panda (job production monitoring) instead of seeing "234 jobs failed" for task 12345, see:
 - 12 occurrences of bug 65001, claimed to be solved in release 23.4.5
 - 3 occurrences of bug 65234 still being worked on
 - 2 new bugs (occurring 4 and 5 times respectively), click here to submit the bug reports
- ❑ **SFT: a Phd student working on such issue will visit SFT 2 months this year**

Conclusion



- ❑ IMHO quite constructive answers received from SFT, which would improve significantly our Savannah experience
- ❑ Quite some work on our side:
 - Harmonize projects
 - Investigate Savannah DB dump
 - Investigate JIRA